

### Claims

1. Grinding disk (100) for the rotary slaving on a driven shaft (202) of a grinding machine (200), in particular of a hand grinder, which has at least one supporting plate (10) with at least one cut or opening (20) through which the abrasive dust (300) or the like which develops when grinding can be sucked by means of at least one suction bell (206) placed in or on the grinding machine (200), characterized in that the cut or opening (20) is configured aerodynamically.
2. Grinding disk according to claim 1, characterized in that the cut or opening (20) is configured substantially oval.
3. Grinding disk according to claim 1 or 2, characterized in that the cut or opening (20) extends from the center (12) of the supporting plate (10) radially to the peripheral edge (14) of the supporting plate (10).
4. Grinding disk according to at least one of the claims 1 to 3, characterized in that the longitudinal center line (22) of the cut or opening (20) extends approximately with the shape of an arc of a circle.
5. Grinding disk according to at least one of the claims 1 to 4,

characterized in

that the cut or opening (20) extends in direction of the peripheral edge (14) of the supporting plate (10).

6. Grinding disk according to any of the claims 1 to 5, characterized in  
that the cut or opening (20), in particular the longitudinal lateral edge (24, 26) of the cut or opening (20), is start ground and/or chamfered.
7. Grinding disk according to any of the claims 1 to 6, characterized in  
that on the surface (16) of the supporting plate (10) which is turned off the grinding machine (200)
  - at least one raised edge section (30) and/or
  - between at least two cuts or openings (20) at least one moulding (40)

is provided on which at least one cushion or pad (60) can be supported and/or fixed for the removable fixing of at least one abrasive disk (80).

8. Grinding disk according to at least one of the claims 1 to 7, characterized in  
that at least one radially extending stiffening web (50) is provided on or in the supporting plate (10).
9. Grinding disk according to claim 8, characterized in  
that the stiffening web (50)

- is provided on the surface (18) of the supporting plate which is turned to the grinding machine (200) and/or
  - runs at least partially in the area between at least two cuts or openings (20).
10. Grinding machine (200), in particular a hand grinder, characterized by  
at least one grinding disk (100) according to any of the claims 1 to 9.